

APPENDIX

Changes to Claims:

Claims 1-15 and 17-21 are canceled.

Claim 22-41 are added.

The following is a marked-up version of the amended claim:

16. (Amended) A plasma generation apparatus comprising:

a vacuum vessel having a plasma generation region established in the interior thereof;

a gas inductor that inducts discharge gas into said interior of said vacuum vessel;

an exhaust that exhausts the atmosphere in the interior of said vacuum vessel;

a tube-shaped discharge electrode fashioned so as to enclose said plasma generation region;

a magnetic force line generator that generates magnetic force in said plasma generation region;

a first high-frequency power applicator that applies high-frequency electric power to said discharge electrode to generate a first electric field, wherein the electric field and the magnetic force forms a first plasma density that is higher in a periphery of said plasma generation region than in a center of said plasma generation region;

a magnetic force line generator that generates magnetic force in said plasma generation region;

two walls, formed of a substance exhibiting electrical conductivity, and positioned so as to sandwich said plasma generation region between them, in a center axis of said discharge electrode, for defining the scope of said plasma generation region in said centeraxis, wherein a substrate is located between said two walls; ~~and~~

a second high-frequency electric power applicator that applies high-frequency electric power to at least one of said two walls to generate a second field that forms a second plasma density that is higher in said center of said plasma generation region than in said periphery of said plasma generation region; and

a controller that controls a magnitude of high-frequency electric power of said first high-frequency power applicator and a magnitude of high-frequency electric power of said second high-frequency electric power applicator such that said first plasma density and said second plasma density form a uniform plasma density in said plasma generation region .